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Reply to O.A. of January 26, 2005

**Amendments to the Abstract:**

A replacement Abstract is being submitted herewith and follows page 14 of this paper.

### **Abstract**

A surgical navigation system includes a computer system that includes a display, a camera detection system that has multiple camera arrays in communication with the computer system, a wireless tracking device that contains optical tracking elements that can be detected by the camera detection system, and a bi-directional wireless communication system that enables the tracking device to send and receive information from the computer system. The camera detection system determines the location of some or all of the optical tracking elements on the tracking device and based on calibration information stored within the computer system enables the computer system to display the location of the tracking device on the display relative to a surgical field.